Thursday, May 05, 2011 11:46:38 AM

Item ID:

D3391-025

Accept



Setup Start

Stop



Revision ID:

Item Name:

Aft Tube Assembly

Start Date:

5/5/2011

Start Qty: 1.00

Required Date: 5/20/2011

Req'd Oty: 1.00



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date://-05-5

Date:

Tooling:

SPC (Y/N):

Date:

Date:

Run

Start

Stop

Sequence ID/ Work Center ID

Operation Description Set Up/ **Run Hours** Tool ID

Tool# Plan Code

Accept Qty

Reject Qty

Reject Number

Insp. Stamp

Draw Nbr

Revision Nbr

Rev H/ DEO D3391

100

MORI SEIKI CNC LATHE LARGE

J.F.S. JOMMUNOS/11

Mori Seiki

Mori Seiki CNC Lathe Large

Memo

Turn as per Folio FA599

Rev: AA & Dwg D3391 Rev: H

0.00

scribe batch # on fwd end at 90 degree

110

QC

QC2- Inspect parts off machine FAI/FAIB

0.00

0.00

T.FS./9101/2 11/05/11

Quality Control

QC8- Inspect parts - second check

Memo

Memo

0.00

QC

111

Quality Control

0.00

	-										
W/O:			WORK ORDER CHANGES								
DATE	STEP	PRO	CEDURE CH	IANGE	В	у	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
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Part No	:	PAR #:	Fault Ca	tegory:	NCR: Yes No DQA: Date:				Date:	·	
	R	esolution:	Disposit	ion:	_ QA: N	/C Clo	sed:		Date: _		
NCR:		V	VORK OR	DER NON-CONFORMA	ANCE (I	NCR)					
DATE	STEP	Description of NC		Corrective Action Section B		Sign &		ation	Approval	Approval	
DAIL	316	Section A	Initial Chief Eng	Action Description Chief Eng		Date	Section C		Chief Eng	QC Inspector	
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Work Order ID Thursday, May 05, 2011									Page 2
Item ID: D3391-07 Revision ID: Item Name: Aft Tube A Start Date: 5/5/2011 Required Date: 5/20/201 Reference:	Assembly Start Qty: 1.00		Accept	Cust Item 1 Customer:	D:	5	Setup Star Stop)	
	Plan:		Tooling: SPC (Y/N):		ate:	4	Run Star Stop		
Sequence ID/ Work Center ID 120 HAAS 1 HAAS CNC vertical machine #I	Operation Description HAAS CNC VERTICAL Memo 1-Machine a 2-Deburr		Set Up/ Run Hours 0.00 0.00 0.00 A & Dwg D3391 Rev:	Tool ID	Tool # Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
QC Quality Control	QC2- Inspect parts off m Memo	achine FAI/FAIB	0.00 B.A	11 05 24			_		
140 	QC8- Inspect parts - seco	and check	0.00	105/24					

Quality Control

W/O:		WORK ORDER CHANGES											
DATE	STEP	PROC	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector						
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Part No) :	PAR #:	Fault Cat	egory:	NCR: Yes	No DQ	A:	Date: _	,				
	R	esolution:	Disposition	on:	_ QA: N/C C	losed: <u> </u>		Date: _	<u> </u>				
NCR:		W	ORK ORE	DER NON-CONFORM	ANCE (NC	R)							
DATE	STEP	Description of NC Section A	Initial Action Description		ion B		cation	Approval Chief Eng	Approval QC Inspector				
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Work Order ID 69224

Thursday, May 05, 2011 11:46:38 AM



Page 3

Item ID:

D3391-025

Accept

Setup Start

Revision ID:

Item Name:

Aft Tube Assembly

Start Date:

Required Date: 5/20/2011

5/5/2011

Start Qty: 1.00

Req'd Qty: 1.00

Cust Item ID: Customer:

Reference:

Approvals:

Process Plan:

Date: Date: Tooling:

SPC (Y/N):

Date:

Date:

Tool # Plan

Code

Run

Reject

Qty

Start

Stop

Stop



Insp.

Stamp

Reject

Number

Sequence ID/

Work Center ID

150

Skidtubes Skidtubes

Operation Description

Set Up/ **Run Hours**

0.00

Skidtubes

Memo

0.00

1-Drill (PILOT HOLE) aft cap holes per Dwg D3391 using DT8803

Tool ID

11-5-25

Accept

Qty

160

CNC Bend 1

BENDING MACHINE - SKIDTUBES

Memo

0.00

0.00

CNC Delta 100 Bender

Form as per Dwg D3391 Using Bend Prog 3391025

11-5-25

170

QC

Quality Control

QC5- Inspect part completeness to step on W/O

0.00

14 4.05

BE 1 11/05

Memo

0.00

	·									,				
W/O:			WORK ORDER CHANGES											
DATE	STEP	PRO	CEDURE CHAI	NGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector				
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Part No		PAR #:	Fault Cate	jory:	NC	R: Yes	No DQ	A:	_ Date: _					
	Resolution:		Disposition	n:	QA	: N/C Clo	sed:		Date: _					
NCR:		\	WORK ORDI	ER NON-CONFOR	MANCE	(NCR) .		• • • • • • • • • • • • • • • • • • • •					
DATE	STEP	Description of NC	Corrective Action Section B				Verific	cation	Approval	Approval				
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Thursday, May 05, 2011 11:46:38 AM

Page 4

Item ID:

D3391-025

Accept



Setup Start



Revision ID:

Item Name:

Aft Tube Assembly

Start Date:

Required Date: 5/20/2011

5/5/2011

Start Qty: 1.00,

Req'd Qty: 1.00...



Cust Item ID: **Customer:**

Reference:

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A	DD	rov	aı	S:

Process Plan:

QC:

Date:

Tooling: SPC (Y/N):

Date:

Date:

Run

Start

Stop



Stop



Sequence ID/ Work Center ID

180

Skidtubes

Skidtubes

Operation Description Set Up/ **Run Hours**

0.00

Tool ID

Tool # Plan Code

Accept Oty

Reject **Qty**

Reject Insp. Number Stamp

Skidtubes

Memo

0.00

1-Open Aft cap pilot hole to .208" as per Dwg D3391

Date:

2-Drill float bag holes using DT8809 as per Dwg D3391(Holes marked "A" Only.

3-Drill wearplate holes as per Dwg D3391 using DT8878(Mid Tube) & DT8217 Wearplate Jig.

*****Do Not Open To Finished Size****

4-Drill Wearshoe holes as per DWG D3391 using DT8939 locating from 2 previously drilled aft wearplate holes.

5-Open wearplate holes to 0.250" and c'bore as per dwg D3391

6-Open up all wearshoe, wearplate to 0.297" and float bag holes to 0.328" as per Dwg D3391.

7-Deburr

11-5-25

W/O:		·	WORK ORDER CHANGES						
DATE STEP		PR	OCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
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Part No):	PAR #:	Fault Category:	NCR: Yes	No DQ	4 :	Date:		
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Work Order ID 69224

Thursday, May 05, 2011 11:46:38 AM

Page 5

Item ID:

D3391-025

Accept

Setup Start

Stop



Revision ID:

Item Name:

Aft Tube Assembly

Start Date:

Required Date: 5/20/2011

5/5/2011

Start Qty: 1.00

Req'd Qty: 1.00



Cust Item ID: Customer:

Reference:

Approvals:

QC:

Process Plan:

Date: Date:

Tooling:

SPC (Y/N):

Set Up/

Date:

Date:

Run

Start

Stop



Sequence ID/ Work Center ID

190

Quality Control

Operation Description

QC5- Inspect part completeness to step on W/O

Run Hours

0.00

0.00

Tool ID

Tool # Plan Code

Accept

Reject Qty

Reject Insp. Number

Stamp

200

HandFinish

Hand Finishing

Chemical Conversion Coat per QS1005 4.1

0.00

Memo

Memo

0.00

210

Quality Control

QC3- Inspect Part Finish

0.00

Memo

0.00

11-5-25

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W/O:			WORK ORDER CHANGES											
DATE	STEP	PRO	OCEDURE CH	ANGE	Ву	Date Q	ty Approval Chief Eng / Prod Mgr	Approval QC Inspector						
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Page 6

Work Order ID 69224 Thursday, May 05, 2011 11:46:38 AM D3391-025 Item ID: Revision ID: Aft Tube Assembly Item Name: **Start Date:** 5/5/2011 Start Qty: 1.00 Required Date: 5/20/2011 Req'd Qty: 1.00 Reference: Process Plan: Approvals:



Setup Start

Stop

Cust Item ID: Customer:

Date:

Tooling:

SPC (Y/N):

Accept

Date: Date: Run

Start

1 9 Bt 11/05

Stop

Sequence ID/ Work Center ID

220 g

Skidtubes Skidtubes

Operation Description

Set Up/

Date: _____

Run Hours

0.00

Tool ID

Tool # Plan Code

Accept Qty

Reject **Qty**

Reject Insp. Number Stamp

Skidtubes

Memo

0.00 Instal spacers as per dwg D3391

A/R Magnabond 6398 Batch: 11/6677

cure time 12hrs as per OSI0015

El 11/04/26 8 11/05/16

230

QC5- Inspect part completeness to step on W/O

0.00

Quality Control

0.00

Hand Finishing

Pressure Wash per QSI005 4.3

Memo

0:004

0.00

AND REALODINE AS PER PAR09-043

W/O:	•		W	ORK ORDER CHANG	ES					
DATE	STEP	PRO	OCEDURE CH	ANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Work Order ID 69224

Thursday, May 05, 2011 11:46:38 AM



Page 7

Item ID:

D3391-025

Accept



Date:

Tool # Plan

Code

Setup Start

Stop

Stop



Item Name: **Start Date:**

Revision ID:

5/5/2011

Aft Tube Assembly

Start Qty: 1.00

Reg'd Qty: 1.00



Cust Item ID: Customer:

Reference:

A	nn	rov	als:	
- C - M	M 14		68304	

Process Plan:

Date:

Tooling:

SPC (Y/N):

Date:

Tool ID

Start Run

Stamp

Reject

Number

Reject

Qty

Accept

Qty

Required Date: 5/20/2011

Sequence ID/ Work Center ID

240



Powder Coating

Operation Description

White Gloss(Ref:4.3.5.1) per QS1005 4.3-Alum

QC: Date:

START TIME: //
OVEN TEMPERAT FINISH TIME:

Set Up/ **Run Hours**

0.00

0.00

250

Quality Control

QC3- Inspect Part Finish

Memo

0.00

0.00

M 1105(27

260

HandFinish

Hand Finishing

HandFinishing

Memo

-Install inserts as per Dwg D3391 2-Install Aft Cap as per Dwg D3391

-A/R Sikaflex-241/-291 K(1116 Sikaflex expiry date:) 7 6 1 b Il 4/65/25

0.00

0.00

	1							,
W/O:			W	ORK ORDER CHANG	ES			
DATE	STEP	PRO	OCEDURE CHA	NGE	Ву	Date Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	:	PAR #:	Fault Cate	egory:	_ NCR: Yes	No DQA:	Date: _	
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Work Order ID 69224	Wo	rk	Oi	rder	ID	692	24
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Thursday, May 05, 2011 11:46:38 AM



Page 8

Item ID:

D3391-025

Accept

Setup Start

Revision ID:

Item Name:

Required Date: 5/20/2011

Aft Tube Assembly

Start Date:

5/5/2011

Start Qty: 1.00

Req'd Qty: 1.00



Cust Item ID:

Customer:

Reference:

Approvals:

QC:

Process Plan:

Date:_____

Date:

Tooling:

SPC (Y/N):

Tool ID

Date:

Tool # Plan

Code

Date:

Run

Reject

Qty

Start

Stop

Reject

Number

Stop

Insp.

Stamp

Sequence ID/ Work Center ID

270

QC

Quality Control

Operation Description

OC5- Inspect part completeness to step on W/O

Set Up/ **Run Hours**

Memo

280

Packaging

Packaging

Memo

Memo

0.00 D412-742-043/B69242

0.00

Accept

Qty

290

QC

Quality Control

OC21- Final Inspection - Work Order Release

Identify as per dwg & Stock Location: (1)

0.00

0.00

W/O:					ORK ORDER CHAN	IGES					
DATE	STEP		PRO	OCEDURE CH			Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC inspector
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Part No	•		PAR #:	Fault Ca	tegory:	NCF	R: Yes	No DQ	A:	Date:	
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NCR:				WORK ORI	DER NON-CONFORI	MANCE	(NCR)		-	
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Picklist Print

Thursday, May 05, 2011 11:46:43 AM

Work Order ID: 69224

Parent Item:

D3391-025

Parent Item Name: Aft Tube Assembly



Start Date: 5/5/2011

Required Date: 5/20/2011

Page 1

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP Rev B 06-02-07

ECN773 dwg rev. D EC Update Manuf. Instructions JLM 🗆 🗆 🗅

IPP Rev:C 06-03-28 IPP rev D 07.03.20

revF dwg

EC

IPP rev E 07.11.07 JPP Rev:F 07-11-13

ECN 1056

rev G dwg ecn 1053p EC verified by: DD DD verified by: EC

IPP Rev:G 08-09-10 revH as per dwg DD verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D6014-090		Manufactured	No			100	Each	11.0000	1	1	anl "	lo5/10)
				Location		Loc (<u>Oty</u>	Loc Code					
				LG			11						
D2770 4 200		>	Ma		56572	220	l] Fack	£0.0000	_				1 1
D3670-4-200 		Manufactured	No			230	Each	58.0000		4		BENK	6/25
				Location		Loc (<u>Oty</u>	Loc Code					
				LG			58						
	-				68107		58		_	4	_		
D2646 		Manufactured	No			270	Each	47.0000) JSJ	11/0	5/22	
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Location Loc Qty Loc Code FP006 43 43 62678 FP-4 69019

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W/O:			WC	ORK ORDER CHANG	ES				
DATE	STEP	PRO	CEDURE CHA	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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NCR:			WORK ORD	ER NON-CONFORMA	ANCE (NCR)			
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Thursday, May 05, 2011 11:46:43 AM

Work Order ID: 69224

Parent Item:

D3391-025

Parent Item Name: Aft Tube Assembly



Start Date: 5/5/2011

Required Date: 5/20/2011

Start Qty: 1.00

Required Qty: 1.00

D3537-1

Wearpad	

Manufactured

No

270

Each

20.0000



D3537-7

Wearpad

D3553-1

Gasket

D3553-3 Gasket

Manufactured

Manufactured

No Manufactured

No

No

Location FP017 63313 66135 66935

Loc Qty Loc Code 1266804 20 2 14 270 10.0000 Each

Location Loc Oty Loc Code FP017 10 56831 3 65146 270 22.0000 Each

Location Loc Qty Loc Code FP013 22 56568 22 270 Each 46.0000

11/05/27

Loc Qty Location FP 20 31631 20 FP013 26 26 53480

Loc Code

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DATE	STEP	Description of NC Section A	Initial	Corrective Action Sec Action Description	tion B	gn &		cation on C	Approval Chief Eng	Approval QC Inspector
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Thursday, May 05, 2011 11:46:44 AM

Work Order ID: 69224 Parent Item: D3391-025 Parent Item Name: Aft Tube Assembly Start Date: 5/5/2011 **Required Date: 5/20/2011** Start Qty: 1.00 Required Oty: 1.00 D3672-1 270 1,379.000 Manufactured No Each Phenolic Washer Location Loc Qty Loc Code FP-A 29 52505 29 ST074 1350 64177 850 66821 500 ALS4-1032-130 Purchased No 260 Each 1,338.000 14 Insert Location Loc Qty Loc Code ST281 1338 1338 117331 ALS4-1032-225 270 1,069,000 12 Purchased No Each Insert Location Loc Qty Loc Code FP-B 28 110768 28 ST282 I041 110768 1041 270 1.984.000 AN3C4A Purchased No Each **BOLT** Location Loc Qty Loc Code 1984 ST350 117094 984 N 6 117313 1000

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DATE	STEP	PRO	OCEDURE CH	ANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Picklist Print

Thursday, May 05, 2011 11:46:44 AM

Page 4

Work Order ID: 69224

Parent Item:

D3391-025

Parent Item Name: Aft Tube Assembly



Start Date: 5/5/2011

Required Date: 5/20/2011

Start Qty: 1.00

Required Qty: 1.00

AN3C5A

Purchased

No

270

Each

1,332.000

11/05/22

Location	Loc Oty	Loc Code	
FP-A	7		
115835	7		
ST350	1325		
115422	49		
116419	376		<u> </u>
116549	100		
117343	500		
117508	300		

Each

AN960C10L

NAS1149C0332 R_

Purchased

No

270

1117291

0.0000

(x10) Mulos 127

washer

W/O:			W	ORK ORDER CHANG	GES				
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DATE	STEP	Description of NC			tion B	Veri	fication	Approval	Approval
DATE	SIEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign Dat	& Se	ction C	Chief Eng	QC Inspector
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DART AEROSPACE LTD	Work Order:	69229
Description: Float Skidtube (412)	Part Number:	D3391-3
Inspection Dwg: D3391 Rev: H		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

Prototype

First Article

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
	2	La	the Section	n		
14.000	+/-0.010	14.000"			Moci	Control
3.500	+/-0.010	3,502"			Mic with T.G	
(88.93	+1-0.030	NA	/2/11	. pc.	11	

Tape	EC-11
	一切しつ日
mier	CNC-DS
, -	
	Date

measured by. J. F. D. M		Date.
	,	
Audited by:		Date: 1105/84

	926	. HA	AS Section			
1.526	+0.000/-0.030	1.512	1		Vein	6A-01
7.500	+/-0.010	7.502	V .		Vein	CNC-0Z
27.750	+/-0.010	27.750	√ ∰		TAPE	69-12
31.750	+/-0.010	31.750			şı	ul Mills
35.250	+/-0.010	35.250	✓		i t	
3.300	+/-0.010	3.295	~		Veca	6A-01
0.200	+/-0.010	0.204	~		h,	1,
3.520	+/-0.010	3.521	~	Ž	t _i	11
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R0.062	+/-0.010	R0.062	~		R-6	rcf.
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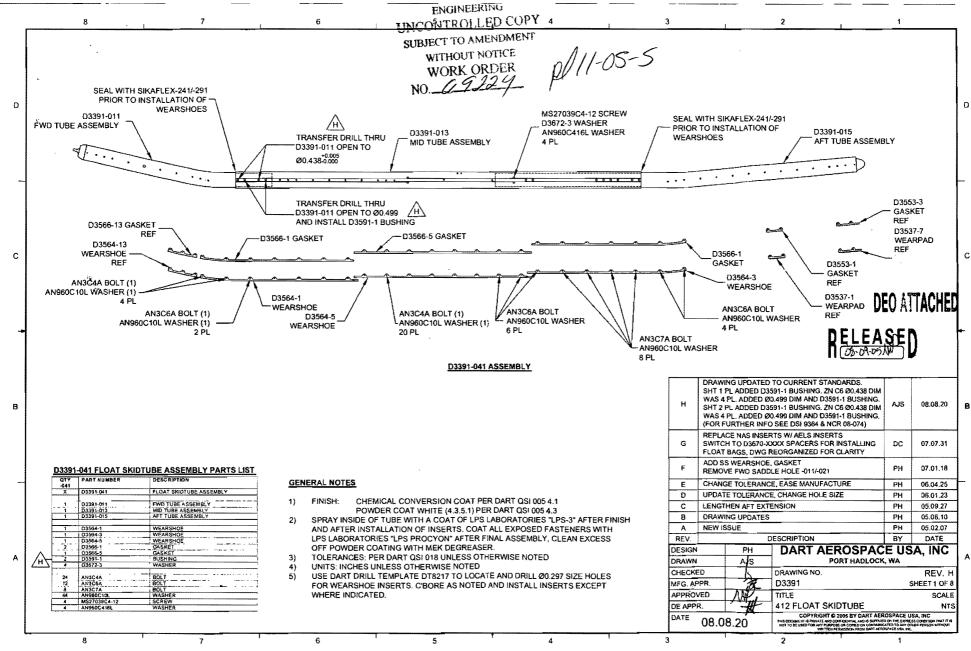
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B 06.		New Issue P/O D3391-015/-025 Dwg revision update	KJ/JLM	
	06.19	Dwg revision update	1/ 1/11 04	
			-KJ/JLM	
C 07.	.04.20	Ø0.208 dimension removed	KJ/JLM	
D 07.	.09.06	0.400 dimension removed	KJ/JLM	-
		Dwg Rev. updated	KJ/EC/DD	
F 09.	.04.27	Dimensions updated per Rev H and NCR09-028	KJ/JLM I	1.1
G 09.	11.16	Dimension 0.200 removed	KJ KJ	AA

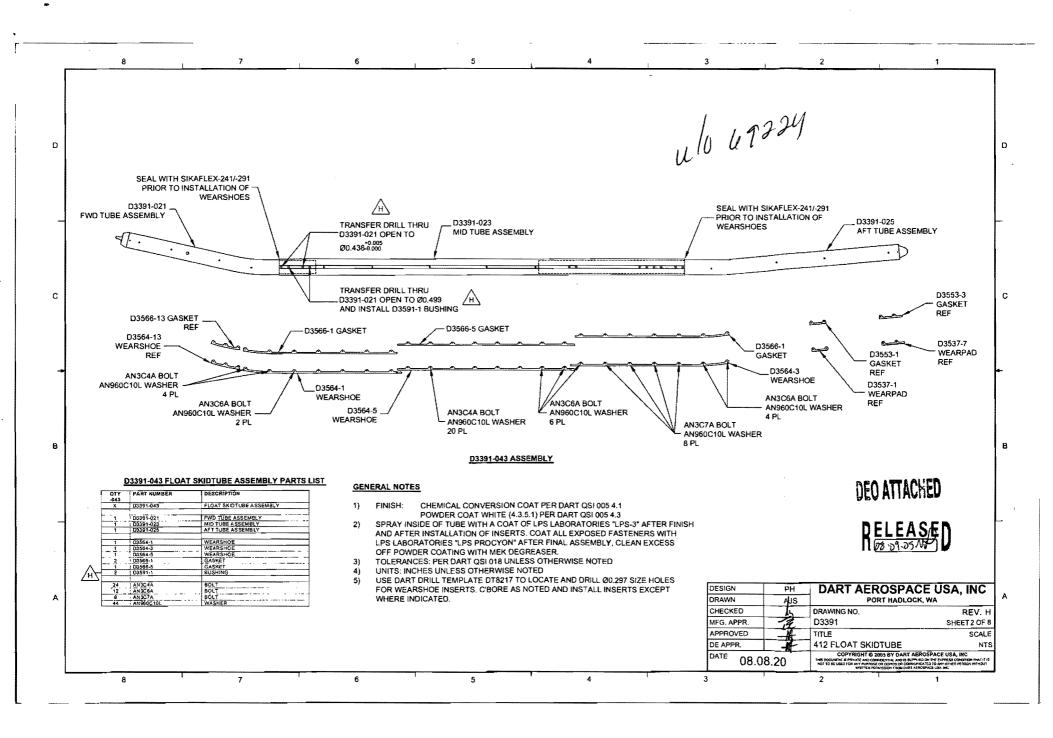
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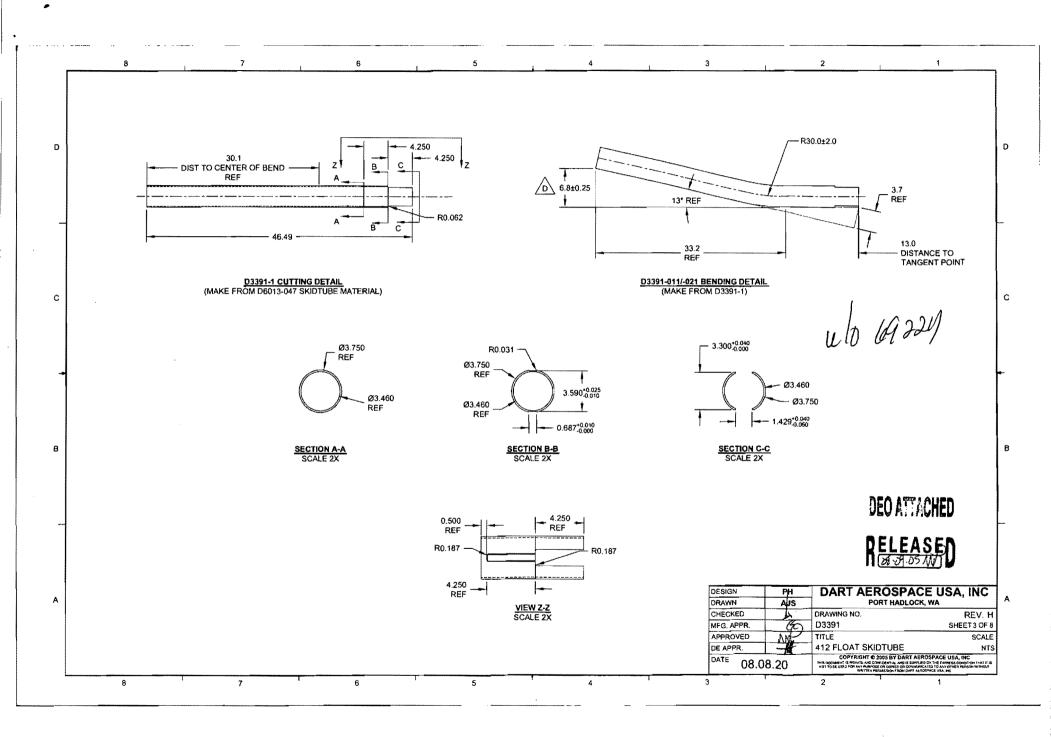
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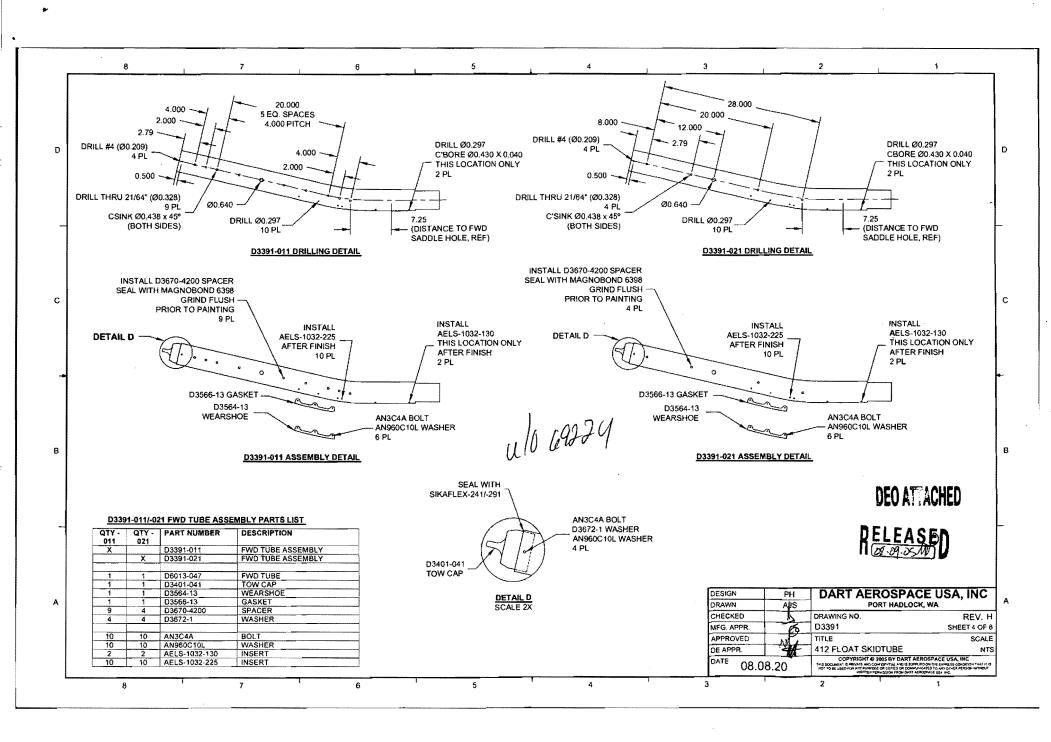


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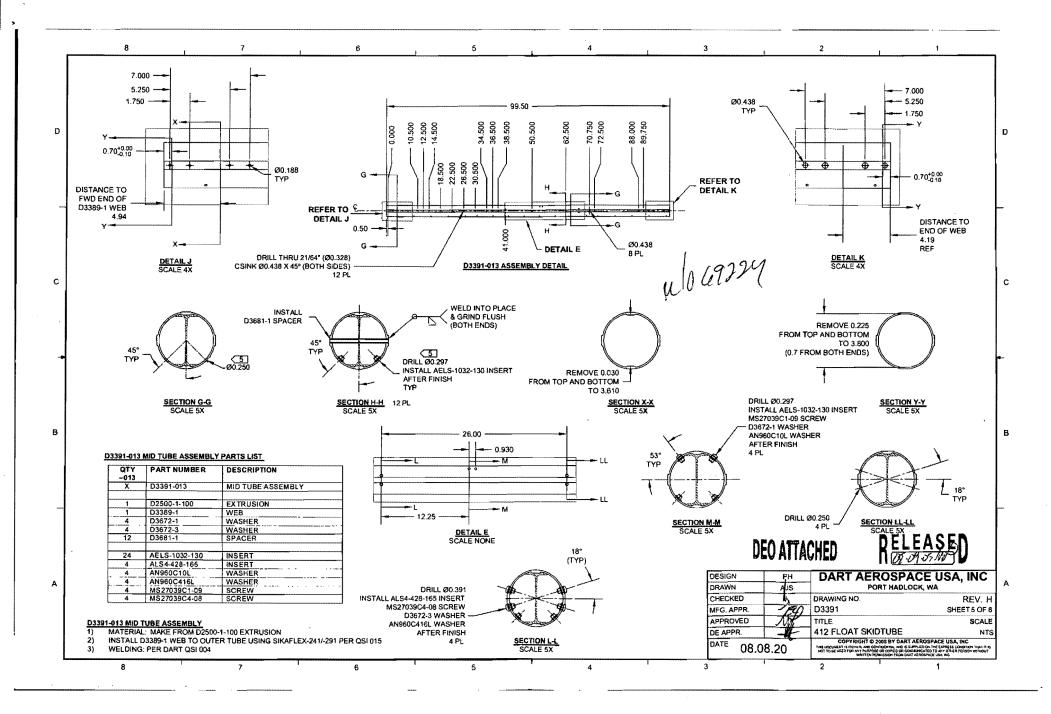


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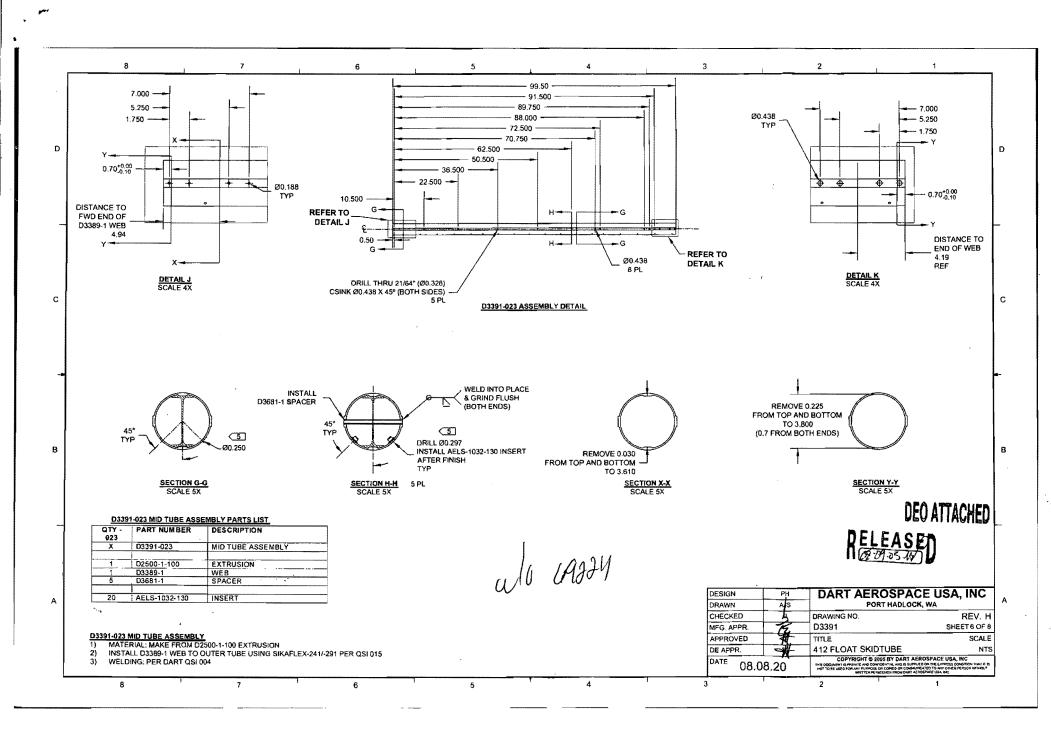
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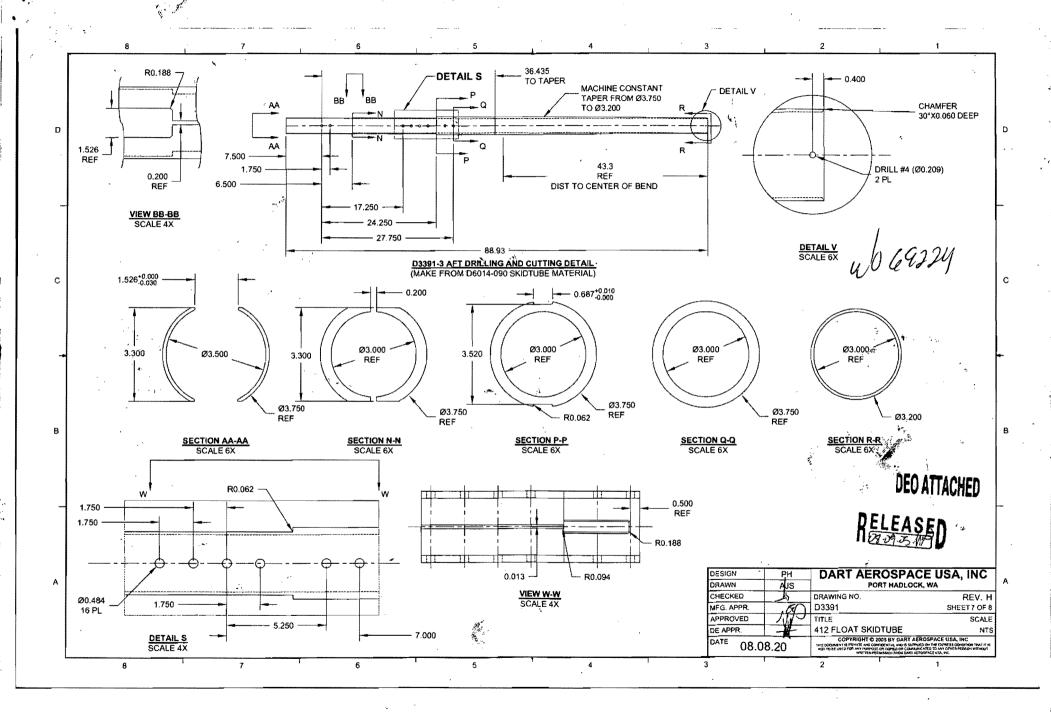
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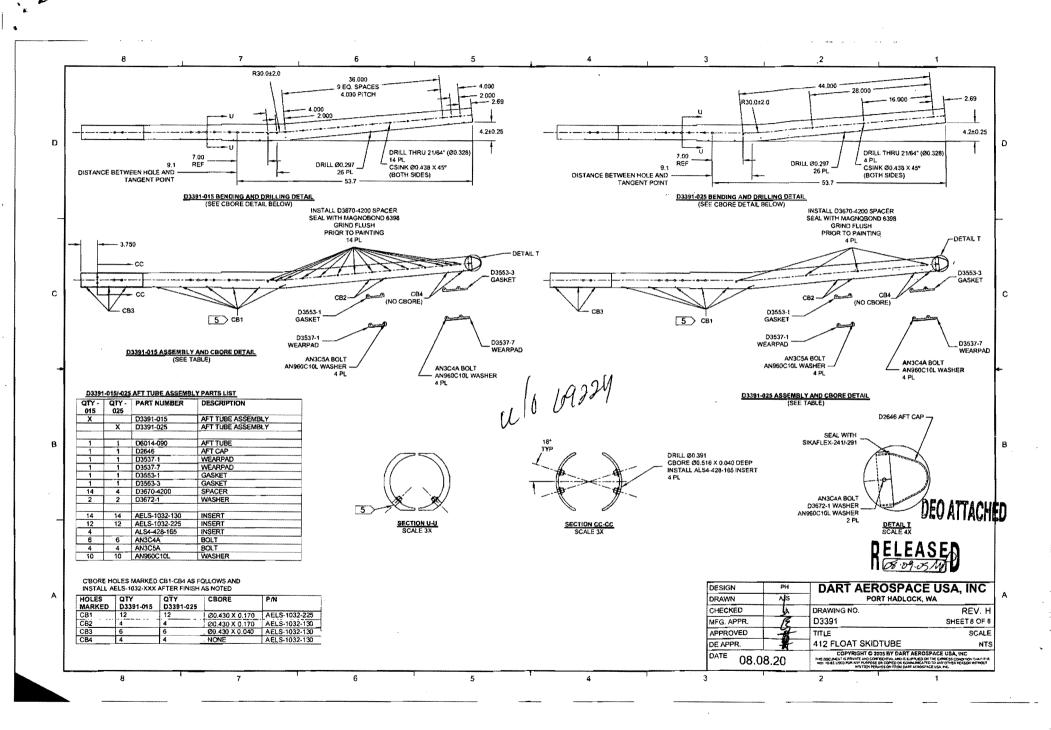
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DRAWING	NO.	TITLE	-	REV.	H DART A	EROSPACE	EUSA, INC D.E.C	D. NO.		SHEET NO.	. SCALE
D3391		412 FLOAT	SKIDTUBE	1	ENG	INEERING (ORDER D33	91-H-1	s	HEET 1 OF,	,1 NTS
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DATE	09.09.	23	DATE	04.04.24	DATE	09/09/25	5 DATE	09/09/30	DATE	09/0	29/30

PURPOSE:

LPS-3 IS NO LONGER USED DURING ASSEMBLY OF D3391-041/-043 SKIDTUBES.

CHANGE:

AMEND NOTE 2 OF D3391-041/-043 SKIDTUBE ASSEMBLIES (ZN A6-1, A6-2) AS FOLLOWS:

2) SPRAY INSIDE OF TUBE WITH A COAT OF LPS LABORATORIES "LPS-3" AFTER FINISH AND AFTER INSTALLATION OF INSERTS. COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF POWDER COATING WITH MEK DEGREASER.

DELEASED 2010 -02- 0 2

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